

ABSTRACT

The present invention provides a flux-guided head for use in a magnetic recording system, such as a disk drive. The head includes a write element that is capable of writing magnetic polarity transitions into the surface of a magnetic media, such as a magnetic disk, using vertical/perpendicular recording techniques. Further, a read element is provided that includes a magnetoresistive element that, when reading perpendicularly-recorded magnetic transitions from the surface of the magnetic media, produces a readback pulse signal having a substantially Lorentzian pulse shape.

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